

# The Mathematical Intelligencer Index

Volume 18

## Authors

**Acker, Felipe.** The Missing Link. (3) 4–9.

**Aebi, Robert.** Schrödinger's Time-Reversal of Natural Laws. (2) 62–67.

**Apéry, François.** Roger Apéry, 1916–1994: A Radical Mathematician. (2) 54–61.

**Askey, Richard, and Nevai, Paul.** Gabor Szegő: 1895–1985. (3) 10–22.

**Aslaksen, Helmer.** Quaternionic Determinants. (3) 57–65.

**Beardon, A.F.** Symmetries of Julia Sets. (1) 43–44.

**Bodden, Ilona.** Evariste Galois (Endbetrag). (4) 34.

**Booss-Bavnbek, Bernhelm.** Bernhelm Booss-Bavnbek Replies. (1) 6.

**Borwein, J., Borwein, P., Girgensohn, R., and Parnes, S.** Making Sense of Experimental Mathematics. (4) 12–18.

**Borwein, P.**, see Borwein, J., Borwein, P., Girgensohn, R., and Parnes, S. (4) 12–18.

**Bretterbauer, Kurt.** Translation of "Evariste Galois (Sum Total)", by Ilona Bodden. (4) 34.

**Chern, Shiing-shen.** Remarks on Hilbert's 23rd Problem. (4) 7–8.

**Ciesielski, Krzysztof, and Pogoda, Zdzisław.** The Beginning of Polish Topology. (3) 32–39.

**Coxeter, H.S.M.** The Trigonometry of Escher's Woodcut "Circle Limit III". (4) 42–46.

**Davis, Chandler.** Which Is to Be Master IV. (2) 37.

**Diacu, Florin.** The Solution of the  $n$ -body Problem. (3) 66–70.

**Donnelly, Keith E., Poincaré, Einstein, Whittaker.** (2) 4.

**Dorfleitner, Gregor, and Klein, Thomas.** Renaissance Area-Fillings in the City Hall of Augsburg. (2) 48–51.

**Dubinsky, Ed, and Noss, Richard.** Some Kinds of Computers for Some Kinds of Learning: A Reply to Kobitz. (1) 17–20.

**Flood, Raymond, and Wilson, Robin.** Stamp Corner. (3) 80.

**Gale, David.** Mathematical Entertainments. (3) 23–27.

**Gale, David, and Golomb, Solomon W.** Mathematical Entertainments. (2) 38–47.

**Gale, David, and Misiurewicz, Michał.** Mathematical Entertainments. (4) 29–34.

**Gale, David, and Newman, D.J.** Mathematical Entertainments. (1) 31–34.

**Gauthier, Paul.** Not a Word. (1) 7.

**Gerow, Ken, and Holbrook, John.** Statistical Sampling and Fractal Distributions. (2) 12–22.

**Girgensohn, R.**, see Borwein, J., Borwein, P., Girgensohn, R., and Parnes, S. (4) 12–18.

**Golomb, Solomon W.**, see Gale, David, and Golomb, Solomon W. (2) 38–47.

**Götze, Heinz.** Visit to Hua Loo-Keng. (1) 7.

**Gray, Jeremy J.** Many-valued Logics. (2) 25.

**Gray, Jeremy J.** Enriques and the Popularisation of Mathematics. (4) 51–54.

**Haas, Robert.** Verbum 5 Advanced Word Processing System. (2) 47.

**Hannabuss, Keith.** Forgotten Fractals. (3) 28–31.

**Hargittai, István.** Sacred Star Polyhedron. (3) 52–54.

**Hargittai, István.** Lifelong Symmetry: A Conversation with H.S.M. Coxeter. (4) 35–41.

**Hargittai, István, and Hargittai, Magdalna.** Stamp Corner. (2) 78–79.

**Hargittai, Magdalna**, see Hargittai, István and Hargittai, Magdalna. (2) 78–79.

**Helberg, Gilbert, and Sigmund, Karl.** Nestor of Mathematicians: Leopold Vietoris Turns 105. (4) 47–50.

**Holbrook, John**, see Gerow, Ken, and Holbrook, John. (2) 12–22.

**Horowitz, David.** The English Hammer-Beam Roof. (4) 61–64.

**Huylebrouck, D.** The Bone that Began the Space Odyssey. (4) 56–60.

**Huylebrouck, Dirk.** The  $\pi$ -Room in Paris. (2) 51–53.

**Huylebrouck, Dirk.** Simon Stevin's Stature. (3) 55–56.

**Itenberg, Ilia, and Viro, Oleg.** Patchworking Algebraic Curves Disproves the Ragsdale Conjecture. (4) 19–28.

**Kantor, Jean-Michel.** Hilbert's Problems and Their Sequels. (1) 21–30.

**Klein, Thomas**, see Dorfleitner, Gregor, and Klein, Thomas. (2) 48–51.

**Kobitz, Neal.** The Case Against Computers in K-13 Math Education (Kindergarten through Calculus). (1) 9–16.

**Kuo, K.H.** Penrose Tiling in Helsinki and Tokyo. (4) 65.

**Kullman, David.** Penrose Tiling at Miami University. (4) 66.

**Lambek, J.** Corrigenda to "Quaternions in Physics." (3) 3.

**Lambek, J.** Number Words and Language Origins. (4) 69–72.

**Lau, Eike, and Schleicher, Dierk.** Symmetries of Fractals Revisited. (1) 45–51.

**Lenstra, H.W.**, see Stevenhagen, P., and Lenstra, H.W. (2) 26–37.

**Machover, Maurice.** Epitaphs of Famous Mathematicians. (4) 6.

**Misiurewicz, Michał**, see Gale, David, and Misiurewicz, Michał. (4) 29–34.

**Mühlhausen, Elisabeth.** A Walk Around Leibniz. (1) 52–56.

**Nevai, Paul**, see Askey, Richard, and Nevai, Paul. (3) 10–22.

**Newman, D.J.**, see Gale, David, and Newman, D.J. (1) 31–34.

**Noss, Richard**, see Dubinsky, Ed, and Noss, Richard. (1) 17–20.

**Octavio, Alfredo.** Report on the Zurich Congress. (3) 3.

**Octavio, Alfredo.** The "Indexed" Theorem. (4) 9–11.

**Parnes, S.**, see Borwein, J., Borwein, P., Girgensohn, R., and Parnes, S. (4) 12–18.

**Peterson, S.P.** Unintended Consequences. (4) 6.

**Pogoda, Zdzisław**, see Ciesielski, Krzysztof, and Pogoda, Zdzisław. (3) 32–39.

**Rankin, Robert A.** More on Maclaurin. (2) 5.

**Rice, Adrian.** Augustus De Morgan (1806–1871). (3) 40–43.

**Rota, Gian-Carlo.** Light Shadows: Remembrances of Yale in the Early Fifties. (3) 44–51.

**Rudolph, Lee.** Frobenius: A Sesquilogue. (2) 68–70.

**Schappacher, Norbert, and Scholz, Erhard.** How to Write about Teichmüller. (1) 5–6.

**Schappacher, Norbert, and Schoof, René.** Beppo Levi and the Arithmetic of Elliptic Curves. (1) 57–69.

**Schleicher, Dierk**, see Lau, Eike, and Schleicher, Dierk. (1) 45–51.

**Scholz, Erhard**, see Schappacher, Norbert, and Scholz, Erhard. (1)

5–6.

**Schoof, René**, see Schappacher, Norbert, and Schoof, René. (1) 57–69.

**Schroeder, Manfred**. More on Magnus. (1) 7.

**Scimone, Aldo**. Il Circolo Matematico di Palermo. (1) 6.

**Senecal, Marjorie**. New Column on the Way. (4) 5.

**Sheng, Xiang**, and **Spurr, Michael J.** Symmetries of Fractals. (1) 35–42.

**Sigmund, Karl**, see Helmberg, Gilbert, and Sigmund, Karl. (4) 47–50.

**Spurr, Michael J.**, see Sheng, Xiang, and Spurr, Michael J. (1) 35–42.

**Stein, S.K.** Exactly How Did Newton Deal with His Planets? (2) 6–11.

**Stevenhagen, P.**, and **Lenstra, H.W.** Chebotarëv and his Density Theo-

rem. (2) 26–37.

**Treil, Serguei**. America in the 1990s. (3) 25.

**Tuynman, Gijs M.** Numerology. (2) 5.

**Viro, Oleg**, see Itenberg, Ilia, and Viro, Oleg. (4) 19–28.

**Wilson, Robin**. Stamp Corner. (1) 80.

**Wilson, Robin**. Stamp Corner. (4) 80.

**Wilson, Robin**, see Flood, Raymond, and Wilson, Robin. (3) 80.

## Reviews

**Acton, Forman S.** Real Computing Made Real: Preventing Errors in Engineering and Scientific Calculations. Reviewed by Jet Wimp. (4) 74–75.

**Ambrosetti, A.**, and **Prodi, G. A.** Primer on Nonlinear Analysis. Reviewed by Jet Wimp. (4) 76–77.

**Anglin, W.S.** The Queen of Mathematics: An Introduction to Number Theory. Reviewed by Jet Wimp. (4) 75–76.

**Arnold, V.I.** Catastrophe Theory. Reviewed by Jet Wimp. (4) 73–74.

**Barbeau, Edward**, **Moser, William**, and **Klamkin, Murray**. Five Hundred Mathematical Challenges. Reviewed by Jet Wimp. (4) 78–79.

**Bölling, Reinhard**, ed. A Photo Album for Weierstrass. Reviewed by R.B. Burckel. (1) 78–79.

**Borwein, Peter**, and **Erdélyi, Tamás**. Polynomials and Polynomial Inequalities. Reviewed by Jet Wimp. (3) 76–79.

**Dauben, Joseph Warren**. Abraham Robinson: The Creation of Non-standard Analysis; A Personal and

Mathematical Odyssey. Reviewed by Martin Davis. (2) 75–77.

**Davis, Philip J.** Spirals: From Theodorus to Chaos. Reviewed by Michele Emmer. (1) 75–78.

**Erdélyi, Tamás**, see Borwein, Peter, and Erdélyi, Tamás. (3) 76–79.

**Ferguson, Claire**. **Helamon Ferguson**: Mathematics in Stone and Bronze. Reviewed by J.W. Cannon. (2) 73–75.

**Katok, Anatole**, and **Strelcyn, Jean-Marie**. Invariant Manifolds; Entropy and Billiards; Smooth Maps with Singularities. Reviewed by Ya. B. Pesin. (3) 74–75.

**Klamkin, Murray**, see Barbeau, Edward, Moser, William, and Klamkin, Murray. (4) 78–79.

**Kozlov, Valerii V.** and **Treschev, Dmitrii V.** Billiards, A Genetic Introduction to the Dynamics of Systems with Impacts. Reviewed by Ya. B. Pesin. (3) 74–75.

**Lazere, Cathy**, see Shasha, Dennis, and Lazere, Cathy. (4) 77–78.

**Michalewicz, Zbigniew**. Genetic Algorithms + Data Structures = Evolution Programs. Reviewed by Stephen J. Hartley. (3) 75–76.

**Moser, William**, see Barbeau, Edward, Moser, William, and Klamkin, Murray. (4) 78–79.

**Omnes, Roland**. The Interpretation of Quantum Mechanics. Reviewed by Robert Gilmore. (1) 70–75.

**Osteeb, Arnold**, and **Zorn, Paul**. Calculus from Graphical, Numerical, and Symbolic Points of View. Reviewed by Herb Clemens. (4) 67–69.

**Prodi, G.**, see Ambrosetti, A., and Prodi, G. (4) 76–77.

**Ransford, Thomas**. Potential Theory in the Complex Plane. Reviewed by Jet Wimp. 72.

**Shasha, Dennis**, and **Lazere, Cathy**. Out of Their Minds: The Lives and Discoveries of 15 Great Computer Scientists. Reviewed by Jet Wimp. (4) 77–78.

**Stenger, Frank**. Numerical Methods Based on Sinc and Analytic Functions. Reviewed by Kenneth L. Bowers. (2) 71–73.

**Stroock, Daniel W.** Probability Theory: An analytic view. Reviewed by Peter Whittle. (3) 71–74.

**Székely, Gábor J.**, ed. Contests in Higher Mathematics: Miklós Schweitzer Competitions 1962–1991. Reviewed by Jet Wimp. (4) 72–73.

**Treschev, Dmitrii V.**, see Kozlov, Valerii V., and Treschev, Dmitrii V. (3) 74–75.

### Paul Erdős (1913–1996)

Paul Erdős (Erdős Pál) died 20 September 1996 in Warsaw. He was 83. This premier problem-solver (often in collaboration), prolific problem-propounder, and fiercely honest citizen of the world will be missed by us all. Send *The Intelligencer* your Erdős anecdotes; we will publish a collection of them. In gratitude and wonder.

